

Fig. 1

102250" 25629860

130

High Speed Internet Connection (ISP X)

120

The Internet

High Speed Internet Connection (ISP Y)

110

140

105

Ethernet 100 Mb/sec

Node

Load Balancer 1

Node

Firewall 1

Router 1

Node

Firewall 2

Node

Load Balancer 2

Node

Firewall 2

Node

Router 2

Node

Firewall 2

Node

Load Balancer 2

Node

Firewall 2

Node

Load Balancer 2

Node

Firewall 2

Node

Load Balancer 2

Node

Firewall 2

Node

Load Balancer 2

Node

Firewall 2

Node

Off-Site Backup & Archive

Off-Site Storage

Off-Site Storage

Off-Site Storage

Off-Site Storage

Off-Site Storage

Off-Site Storage

Off-Site Storage

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Off-Site Storage

Mail Server Load Balancer

Mail Server 01

Mail Server 02

Mail Server N

Administration Server

File Database Server

Secure Mail Server 01

Secure Mail Server 02

Secure Mail Server 03

Secure Mail Server 04

Secure Mail Server N

Secure Mail Server

Secure Mail Server

Secure Mail Server

Secure Mail Server

Secure Mail Server

Secure Mail Server

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Secure Mail Server

Secure Mail Server

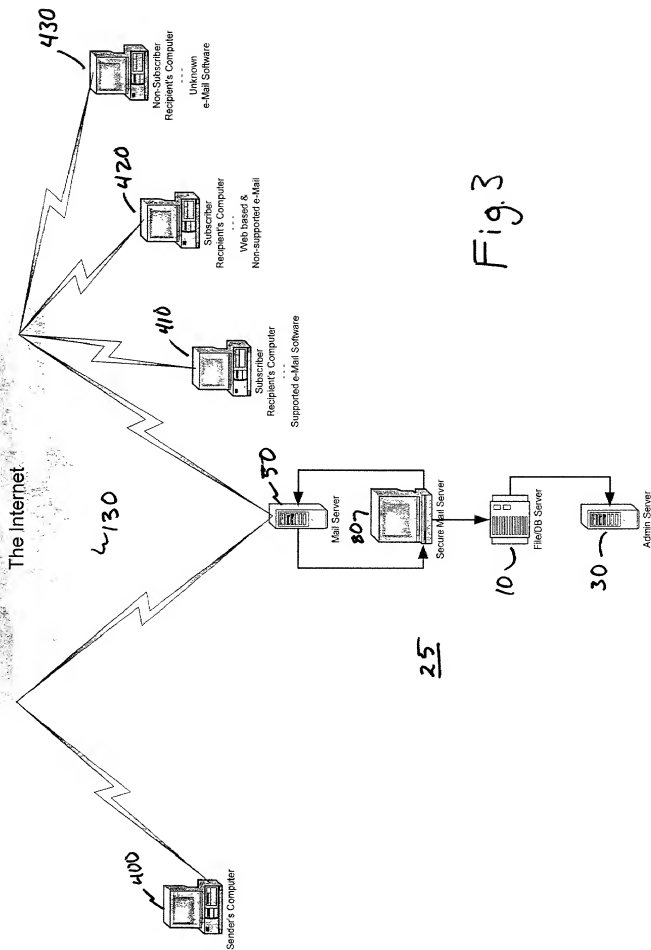
Secure Mail Server

Secure Mail Server

Secure Mail Server

Fig. 2

Secure Mail Node Hardware Architecture



102250" 25629860

~900
Sender's
"Packet"
Arrives

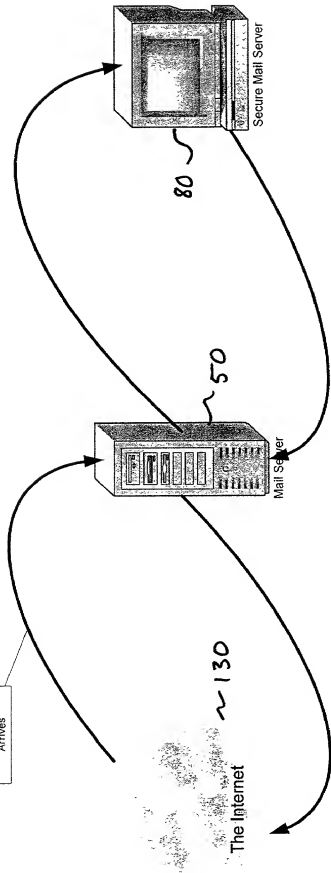


Fig. 4

Secure Mail Center Message Flow

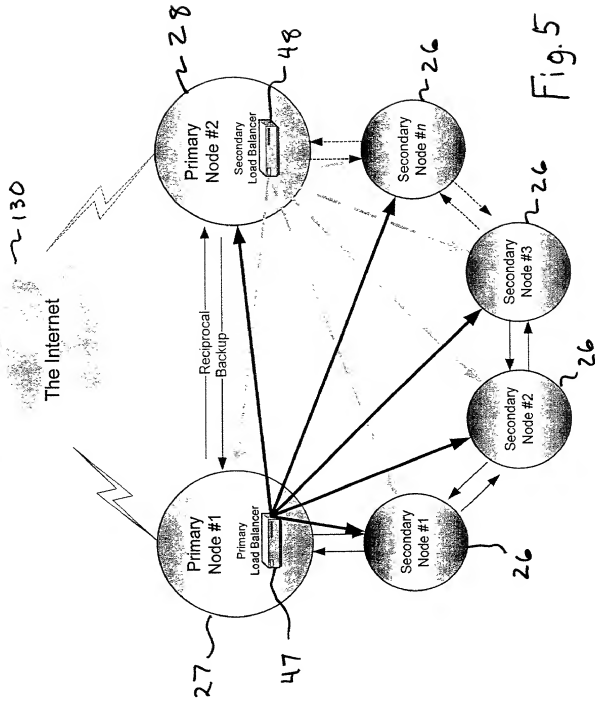


Fig.5

102250"/25629860

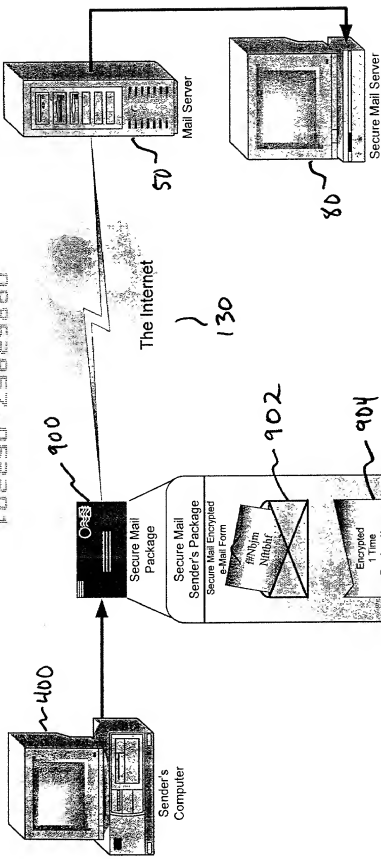


Fig. 6

Secure Mail Sender's Message Package

102250-256 Process Secure Mail ~ 5700

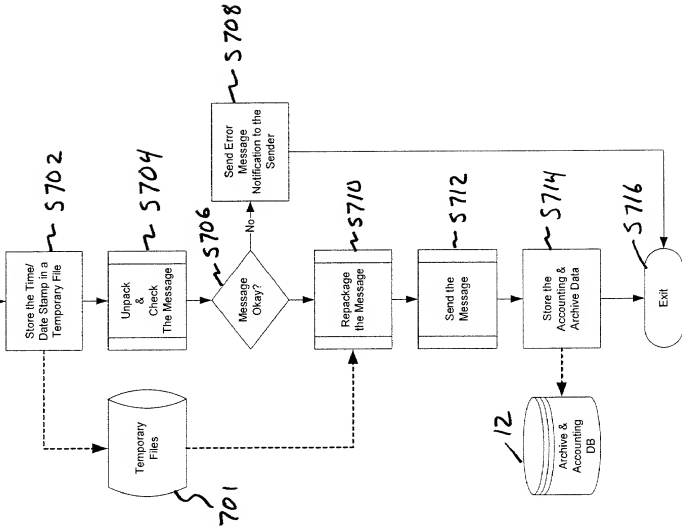
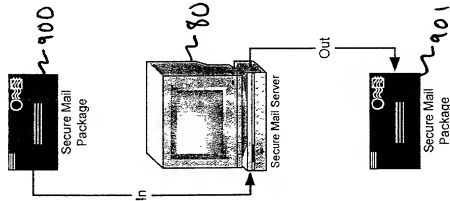


Fig.7

[illegible]

Fig. 8

Unpack & Check The message

Unpack & Check The message

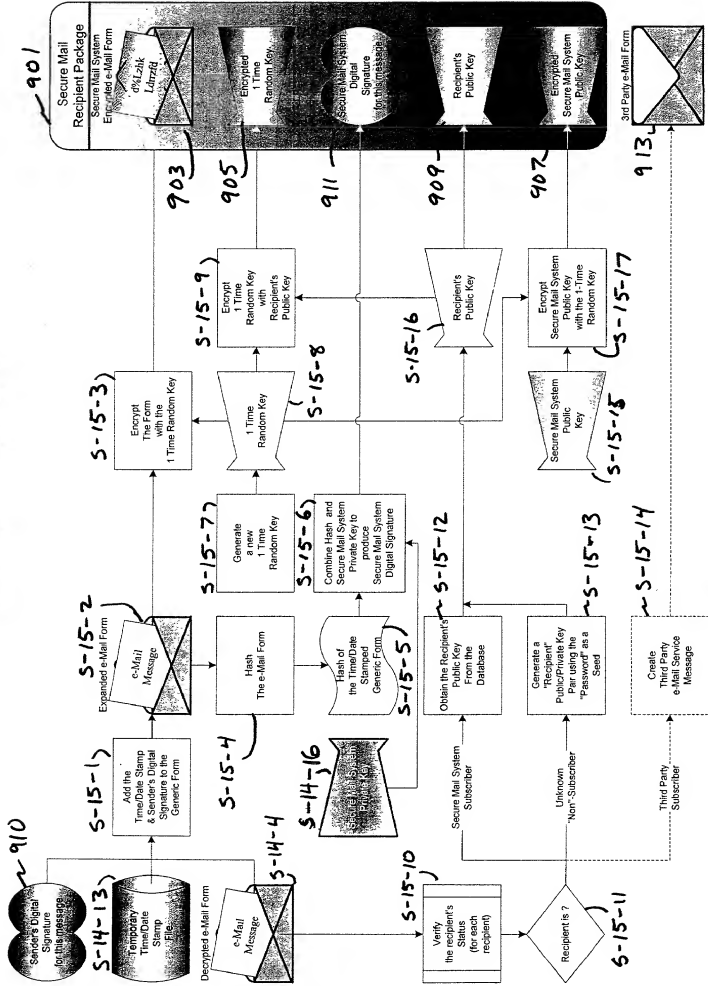


Fig. 9
Repackage The message

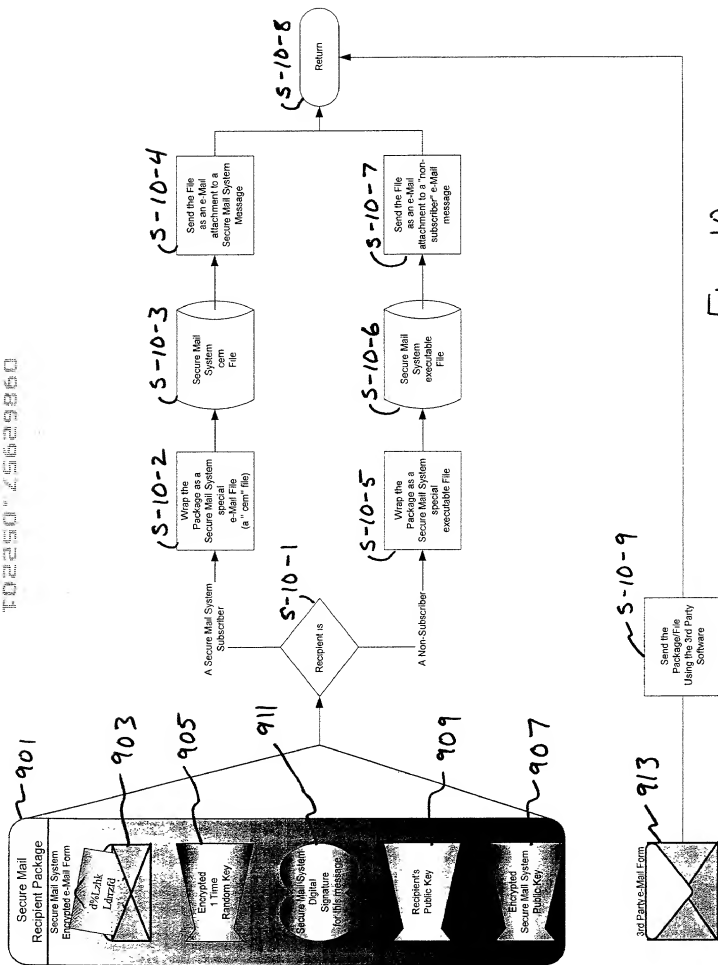


Fig. 10

Send The message

102250*25629860

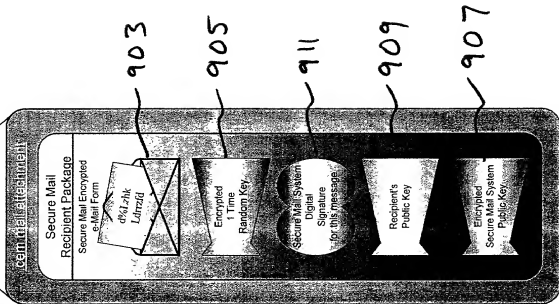
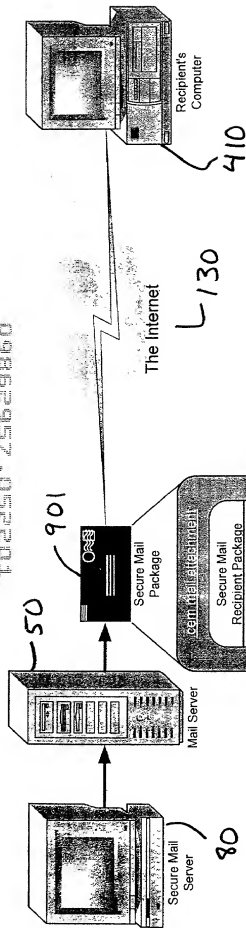


Fig. 11

Secure Mail System "supported" Client Recipient's Message Package

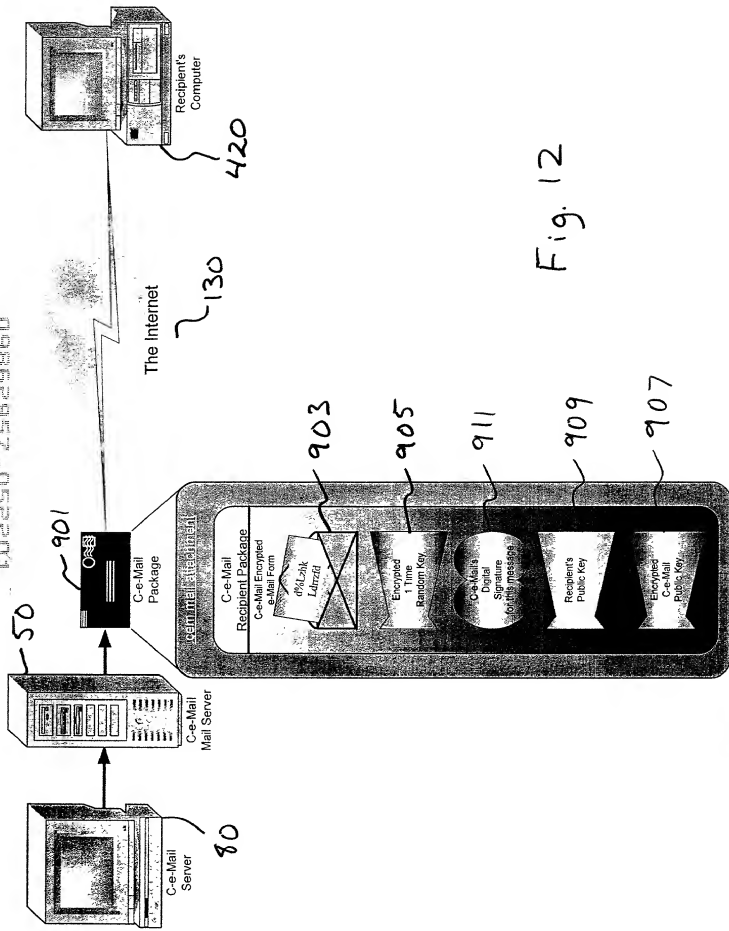


Fig. 12

Subscriber's Generic Client Recipient Message Package

102250" 25629860

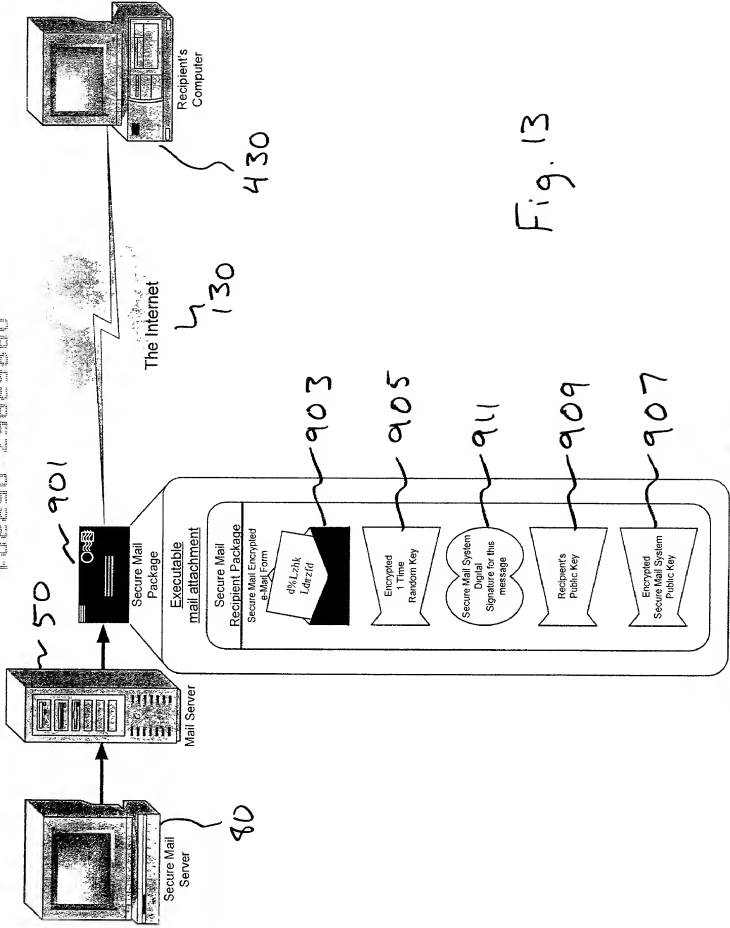


Fig. 13

Non-Subscriber's Recipient Message Package

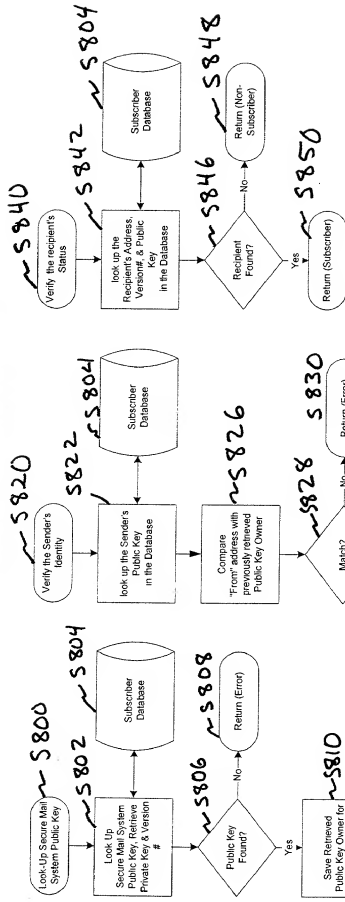


Fig. 14C

Fig. 14

Fig. 14B

Fig 14A

Support Routines

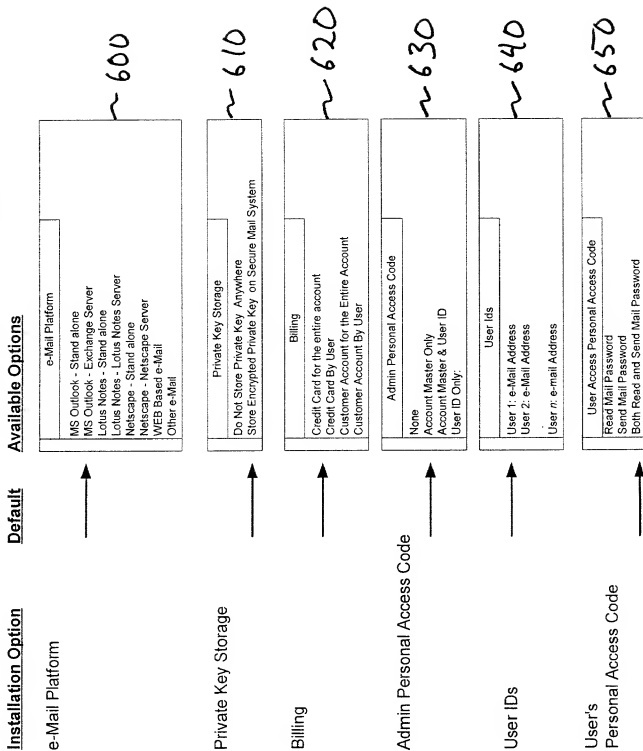


Fig. 15

Secure Mail System Installation Options

Sender Form Option

Default

Available Options

Non Subscriber Password

None
Password To Open

~700

Return Receipt

None
Return Receipt
Sender (auto "bcc")
Sender & Recipient (optional)

~702

Virus Found Policy

Stop Message
Virus Policy
Pass Message with warning

~704

Storage Period

Do Not Store
Storage Period
1 year
2 years
3 years
4 years
5 years
10 Years
25 Years
> 25 Years

~706

Storage Content

Message
Storage Content
Message & Digital Signature
Digital Signature Only

~708

Virus Checking Options

Standard
Virus Checking
Selectable
No Virus Checking

~710

Fig. 16